AMENDMENTS TO THE SPECIFICATION

Please replace paragraph number **[0015]** with the following rewritten paragraph:

[0015] Figures 4 to ~~6~~6A and 6B show successive steps of the calibration method according to the invention; and,

Please replace paragraph number **[0017]** with the following rewritten paragraph:

[0017] Figure 1 shows in a very schematic manner an exemplary, as such known measuring system, for which the calibration method and device according to the invention are suitable. The measuring system comprises a measuring device 1 in which a laser tracker 2 and an opto-electronic sensor 3 are installed one on top of the other or integrated into one another such that their relative positions are fixed. The measuring system further comprises a ~~not illustrated~~ system computer 20.

Please replace paragraph number **[0030]** with the following rewritten paragraph:

[0030] In a further calculation step, for each rotation axis the direction and position in the coordinate systems 30 and 31 are calculated from positions and orientations associated with the specific rotation axis and determined for the reflector arrangement and the light spot arrangement in the previous steps. In ~~Fig. 6~~Figs. 6A and 6B, the reflector arrangement and the light spot arrangement

with the coordinate systems 30 and 31 are separately illustrated and the two rotation axes in the two systems are designated with 1A and 1B on the one hand and 2A and 2B on the other hand.

Please replace paragraph number **[0032]** with the following rewritten paragraph:

[0032] The generated calibration data are stored in the system computer 20 for subsequent measuring processes. If a measuring system comprises a plurality of different auxiliary measuring tools, calibration is carried out for every one of the tools and the corresponding calibration data is stored together with a tool identification. Also stored in the system computer 20 and capable of being activated for a calibration process are algorithms and programs required for the calibration and advantageously also directions for an operator who is to carry out the measuring steps of the calibration process.